

BEGIN AREA OF WORK

MATCHLINE STA 14 +76



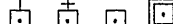

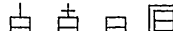





Underground Service Alert










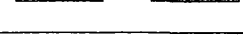
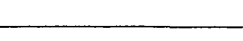
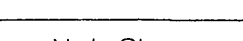
Call: TOLL FREE
1-800
227-2600

TWO WORKING DAYS BEFORE YOU DIG

MATCHLINE STA 14 + 76

MATCHLINE STA 20 + 76 SHEET 2

SPRINKLER LEGEND												
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD	PSI	FLOW (GPM)						DETAIL	
					Q	T	H	TT	TQ	F		
SHRUB HI-POP SPRAY / BUBBLER HEADS WITH PRESSURE REGULATION & CHECK VALVE												
	RAINBIRD 1812-SAM-PRS-5 OR EQUAL	Q/T/H/F	5'	30	.10	.13	.20			.41	I	
	RAINBIRD 1812-SAM-PRS OR EQUAL	6-VAN	6'	30	VARIABLE						I	
	RAINBIRD 1812-SAM-PRS-8 OR EQUAL	Q/T/H/F	8'	30	.26	.35	.52			1.1	I	
	RAINBIRD 1812-SAM-PRS OR EQUAL	8-VAN	8'	30	VARIABLE						I	
	RAINBIRD 1812-SAM-PRS-10 OR EQUAL	Q/T/H/F	10'	30	.39	.53	.79			1.6	I	
	RAINBIRD 1812-SAM-PRS OR EQUAL	10-VAN	10'	30	VARIABLE						I	
	RAINBIRD 1812-SAM-PRS-12 OR EQUAL	Q/T/H/TT/TQ/F	12'	30	.65	.87	1.3	1.7	2.0	2.6	I	
	RAINBIRD 1812-SAM-PRS OR EQUAL	12-VAN	12'	30	VARIABLE						I	
	RAINBIRD 1812-SAM-PRS-15 OR EQUAL	Q/T/H/TT/TQ/F	15'	30	.92	1.2	1.9	2.5	2.8	3.7	I	
TREE BUBBLERS												
	RAINBIRD 1402	N/A	N/A	30	0.5						H	

EQUIPMENT LEGEND				
SYMBOL		MANUFACTURER/MODEL #	SIZE	DETAIL
	A	UPGRADE EXISTING CALSENSE ET-1 TO ET-2000-40-LR-RR-6-ETG-ETGE AUTOMATIC CONTROLLER. USE EXISTING NEMA 3R STEEL ENCLOSURE	40	A
	B	UPGRADE EXISTING CALSENSE ET-1 TO ET-2000-32-ML-FL-RR-7 AUTOMATIC CONTROLLER. UPGRADE EXISTING 18" STRONG BOX TO SB-2455 V.I.T. (24" X 36" X 12"). INSTALL ADDITIONAL ET-2000-32-MLR-FL-RR-N NEW CABINET.	32	A
	M	EXISTING WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	2"	N/A
		EXISTING 2" SERVICE W/BACKFLOW PREVENTER IN STAINLESS STEEL ENCLOSURE	2"	N/A
	MV	EXISTING MASTER CONTROL VALVE	N/A	N/A
		MILWAUKEE # 1141-XX BRONZE GATE VALVE	2.5"	E
		RAINBIRD 44LRC QUICK COUPLING VALVE WITH LOCKING CONCRETE COVER	1"	F
		PRESSURE REGULATING CONTROL VALVE. RAINBIRD XXX-6B-PRS-D	PLAN SIZE	G
	F	EXISTING FLOW SENSOR	N/A	N/A
		SCH 40 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	2.5"	D
		SCH 40 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	D
		SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PER CHART	D
Not Shown		UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	14 GA	D
SPARE		SPARE WIRES SHALL DIFFER IN COLOR FROM CONTROLLER WIRES	14GA	N/A

PIPE SIZING	
—	0.50" PIPE
—	0.75" PIPE
—	1.00" PIPE
—	1.25" PIPE
—	1.5" PIPE
—	2.00" PIPE
—	3" PIPE
—	4" PIPE
—	6" PIPE
—	8" PIPE

SCH 40 PVC SLEEVING		
1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	9-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-38 WIRES	1" PIPE
3" SLEEVE	39-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5" PIPE
6" SLEEVE	100+ WIRES	2.5" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

HIGHEST FLOW 30 GPM - STATION 19 A	
PRESSURE LOSS THRU 2" FLOW SENSOR	0.15 PSI
PRESSURE LOSS THRU 2" WATER METER	0.0 PSI
PRESSURE LOSS THRU 2" BALL VALVE	0.28 PSI
PRESSURE LOSS THRU 2" BACK FLOW UNIT	11.5 PSI
PRESSURE LOSS THRU 2" MASTER VALVE	0.0 PSI
PRESSURE LOSS THRU 2" MAINLINE	4.12 PSI
PRESSURE LOSS THRU CONTROL VALVE	5.7 PSI
PRESSURE LOSS THRU LATERAL LINES	8.68 PSI
SUBTOTAL PRESSURE LOSSES	30.43 PSI
PRESSURE REQUIRED AT HEAD	30.0 PSI
TOTAL LOSSES	60.43 PSI
MISC. SYSTEM LOSSES (10% OF ABOVE)	6.04 PSI
ELEVATION CHANGE (0.433 X 15')	(+) 6.50 PSI
TOTAL PRESSURE REQUIRED	66.48 PSI
STATIC PRESSURE (99 + 6.5)	105.50 PSI
RESIDUAL PRESSURE	(+) 39.02 PSI

NOTES:

1. MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

2. THE EXISTING MAINLINE SHALL BE CUT AND CAPPED AND THRUSTED BLOCK PER PIPE MANUFACTURE.

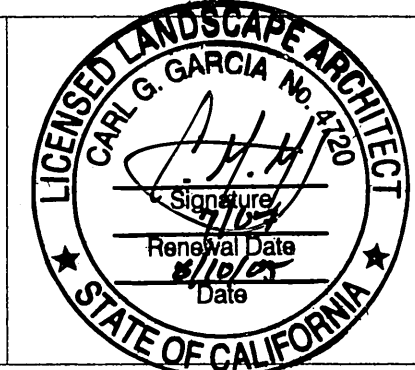
3. PROVIDE A MINIMUM OF 4 SPARE WIRES TO IRRIGATE NEW LANDSCAPE AREAS.

4. COMMON WIRE SHALL BE GRAY # 106A



IMPORTANT NOTICE

Section 416/417 of the Government Code requires a Dig Alert Identification Number to be placed before a "Permit to Excavate" will be valid. For your Dig Alert ID Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



DESIGNED BY	PC	DRAWN BY	PC	CHECKED BY	CGG
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CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	DL	8/10/05	DL
CONST. CONTRACT ADMIN.	DL	8/10/05	DL
STREET SERVICES	DL	8/10/05	DL
SURVEYOR	PC	8/10/05	PC
TRAFFIC DIVISION	PC	8/10/05	PC
PARKS DEPARTMENT	PC	8/10/05	PC

TRAUTWEIN ROAD
MEDIAN LANDSCAPING
(FROM JOHN F. KENNEDY ROAD
TO MISSION VILLAGE ROAD)

ACCT. NO.: 9582236234-440304XX

R-3800

SHEET 1-1 OF 5

MATCHLINE STA 20 + 76
ON SHEET 1

MATCHLINE STA 26 + 76

MATCHLINE STA 26 + 76

MATCHLINE STA 32 + 76
ON SHEET 3

NOTE:
INSTALL 2 1/2" ISOLATION
VALVE FIELD VERIFY
EXISTING LOCATION OF
MAINLINE.

POC "A"
40 STATIONS

MISSION GROVE PARKWAY



NOTE:
SEE IRRIGATION LEGEND ON SHEET 1-I

WESTERN MUNICIPAL WATER SERVICE DISTRICT

DATE _____

CITY OF RIVERSIDE, CALIFORNIA
ELECTRICAL DIVISION, PUBLIC UTILITIES DEPARTMENT

APPROVED BY _____

DATE _____

IMPORTANT NOTICE
Section 4216/4217 of the Government Code
requires a Dig Alert Identification
Number to be issued before a
"Permit to Excavate" will be valid.
For your Dig Alert ID Number call
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600



MARK	REVISIONS	APPR.	DATE

DESIGNED BY _____ PC _____ DRAWN BY _____ PC _____ CHECKED BY _____ CCG _____

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	ALL	8/10/05	
CONST. CONTRACT ADMIN.	PC	8/10/05	
STREET SERVICES	PC	8/10/05	
TRAFFIC DIVISION	PC	8/10/05	
PARKS DEPARTMENT			

DATE: 8/10/05

TRAUTWEIN ROAD
MEDIAN LANDSCAPING
(FROM JOHN F. KENNEDY ROAD
TO MISSION VILLAGE ROAD)

13505
ACCT. NO.: 9582236234-440304XX

R-3800

SHEET 1-2 OF 5

INDEXED 8-30-05 LK

PARK FILE: PC-3800-3001-M

MATCHLINE 32 +76
ON SHEET 2

MATCHLINE STA 38 +76

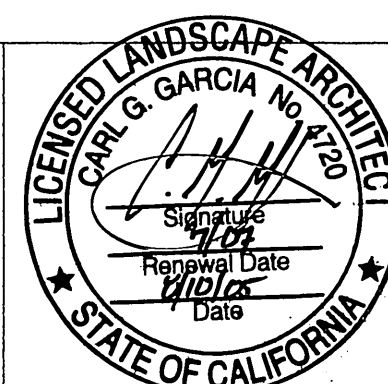
MATCHLINE STA 38 +76

MATCHLINE STA 44 +76
ON SHEET 4



NOTE:
SEE IRRIGATION LEGEND ON SHEET 1-1

IMPORTANT NOTICE
Section 4214.4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT				TRAUTWEIN ROAD MEDIAN LANDSCAPING (FROM JOHN F. KENNEDY ROAD TO MISSION VILLAGE ROAD)		13505 ACCT. NO.: 9582236234-440304XX R-3800 SHEET 1-3 OF 5
APPROVED BY	BY	DATE	APPROVED BY			
PRINCIPAL ENGINEER	CA	8/10/15	CITY ENGINEER			
CONST. CONTRACT ADMIN.	CA	8/10/15				
STREET SERVICES	CA	8/10/15				
SURVEYOR	CA	8/10/15				
TRAFFIC DIVISION	CA	8/10/15				
PARKS DEPARTMENT	CA	8/10/15				
DESIGNED BY	PC	DRAWN BY	PC	CHECKED BY	CCG	

INDEXED 8-30-05 LFH

PARK FILE: PC-3800-3001-M

MATCHLINE STA 44 +76
ON SHEET 3

MATCHLINE STA 50 + 76

MATCHLINE STA 50 + 76

LIMIT OF WORK

PIPE SIZING	
—	0.50" PIPE
—	0.75" PIPE
—	1.00" PIPE
—	1.25" PIPE
—	1.5" PIPE
—	2.00" PIPE
—	3" PIPE
—	4" PIPE
—	6" PIPE
—	8" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE
25 B 24 1"	
26 B 23 1"	
27 B 24 1"	
28 B 24 1"	

NOTES:
1. MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVEING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVEING CHART.
2. THE EXISTING MAINLINE SHALL BE CUT AND CAPPED AND THRUSTED BLOCK PER PIPE MANUFACTURER.
3. PROVIDE A MINIMUM OF 4 SPARE WIRES TO IRRIGATE NEW LANDSCAPE AREAS.
4. COMMON WIRE SHALL BE GRAY # 106A

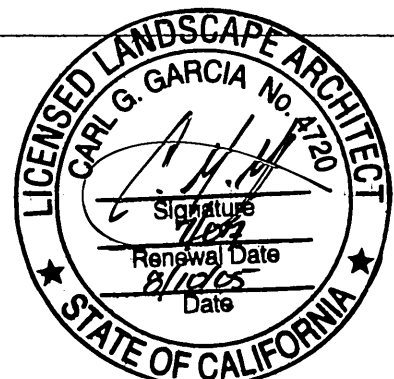
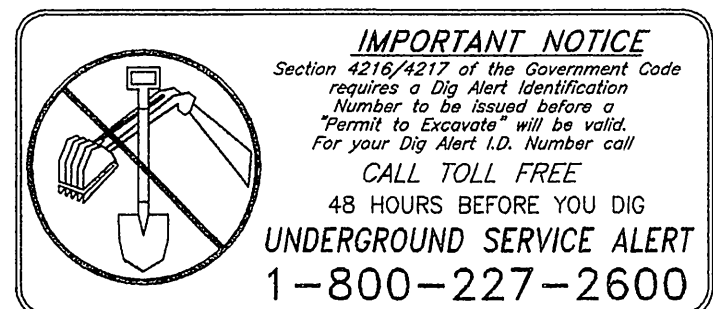
WESTERN MUNICIPAL WATER SERVICE DISTRICT



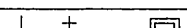

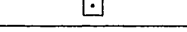



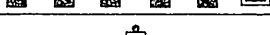

DATE _____

CITY OF RIVERSIDE, CALIFORNIA
ELECTRICAL DIVISION, PUBLIC UTILITIES DEPARTMENT

APPROVED BY _____

DATE _____



SPRINKLER LEGEND											
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD	PSI	FLOW (GPM)						DETAIL
					Q	T	H	TT	TQ	F	
SHRUB HI-POP SPRAY / BUBBLER HEADS WITH PRESSURE REGULATION & CHECK VALVE											
	RAINBIRD 1812-SAM-FRS-5 OR EQUAL	Q/T/H/F	5'	30	10	13	20		.41	I	
	RAINBIRD 1812-SAM-FRS OR EQUAL	6-VAN	6'	30	VARIABLE						I
	RAINBIRD 1812-SAM-FRS-8 OR EQUAL	Q/T/H/F	8'	30	26	35	52		1.1	I	
	RAINBIRD 1812-SAM-FRS OR EQUAL	8-VAN	8'	30	VARIABLE						I
	RAINBIRD 1812-SAM-FRS-10 OR EQUAL	Q/T/H/F	10'	30	34	53	79		1.6	I	
	RAINBIRD 1812-SAM-FRS OR EQUAL	10-VAN	10'	30	VARIABLE						I
	RAINBIRD 1812-SAM-FRS-12 OR EQUAL	Q/T/H/TT/TQ/F	12'	30	65	87	133	1.7	2.0	2.6	
	RAINBIRD 1812-SAM-FRS OR EQUAL	12-VAN	12'	30	VARIABLE						I
	RAINBIRD 1812-SAM-FRS-15 OR EQUAL	Q/T/H/TT/TQ/F	15'	30	92	124	191	2.5	2.8	3.7	
TREE BUBBLERS											
	RAINBIRD 1402	N/A	N/A	30	0.5						H

SCH 40 PVC SLEEVEING		
1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	9-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-38 WIRES	1" PIPE
3" SLEEVE	39-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5 1/2" PIPE
6" SLEEVE	100+ WIRES	2.5 1/2" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

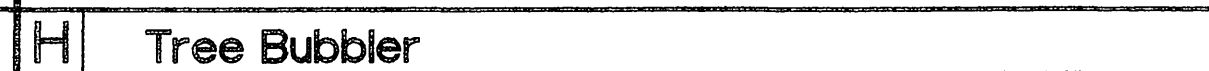
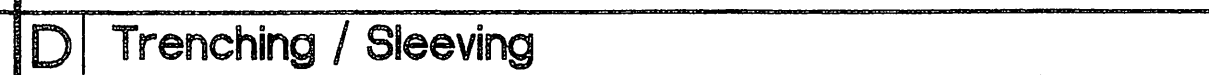
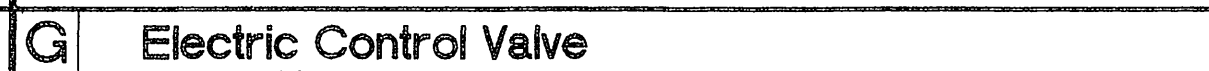
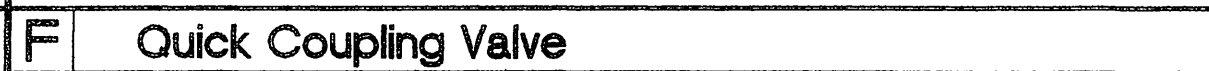
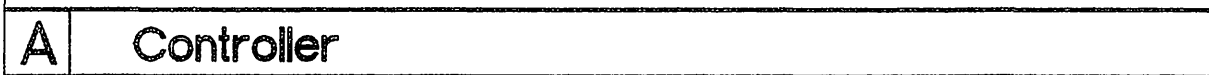
FLOW 29 GPM - STATION 28 B	
PRESSURE LOSS THRU 2" FLOW SENSOR	0.15 PSI
PRESSURE LOSS THRU 2" WATER METER	0.0 PSI
PRESSURE LOSS THRU 2" BALL VALVE	0.20 PSI
PRESSURE LOSS THRU 2" BACK FLOW UNIT	11.5 PSI
PRESSURE LOSS THRU 2" MASTER VALVE	0.0 PSI
PRESSURE LOSS THRU 2" MAINLINE	4.18 PSI
PRESSURE LOSS THRU CONTROL VALVE	5.7 PSI
PRESSURE LOSS THRU LATERAL LINES	8.47 PSI
SUBTOTAL PRESSURE LOSSES	30.20 PSI
PRESSURE REQUIRED AT HEAD	30.0 PSI
TOTAL LOSSES	60.20 PSI
MISC. SYSTEM LOSSES (10% OF ABOVE)	6.02 PSI
ELEVATION CHANGE (0.493 x 16')	(-) 7.89 PSI
TOTAL PRESSURE REQUIRED	66.30 PSI
STATIC PRESSURE (44 - 6.93)	37.07 PSI
RESIDUAL PRESSURE	(+) 25.11 PSI

EQUIPMENT LEGEND			
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL
CA	UPGRADE EXISTING CALSENSE ET-1 TO ET-2000-40-LR-RR-6-ET6-ET6A AUTOMATIC CONTROLLER. USE EXISTING NEMA 3R STEEL ENCLOSURE	40	A
CB	UPGRADE EXISTING CALSENSE ET-1 TO ET-2000-32-ML-FL-RR AUTOMATIC CONTROLLER. UPGRADE EXISTING 18" STRONG BOX TO SB-2436 V.I.T. (24" X 36" X 12"). INSTALL ADDITIONAL ET-2000-32-MLR-FL-RR IN NEW CABINET.	32	A
M	EXISTING WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	2"	N/A
MB	EXISTING 2" SERVICE W/BACKFLOW PREVENTER IN STAINLESS STEEL ENCLOSURE	2"	N/A
MV	EXISTING MASTER CONTROL VALVE	N/A	N/A
W	MILWAUKEE # 1141-XX BRONZE GATE VALVE	2.5"	E
WV	RAINBIRD 44LRC QUICK COUPLING VALVE WITH LOCKING CONCRETE COVER	1"	F
WV	PRESSURE REGULATING CONTROL VALVE. RAINBIRD XXX-GB-FRS-D	PLAN SIZE	G
F	EXISTING FLOW SENSOR	N/A	N/A
—	SCH 40 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	2.5"	D
—	SCH 40 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	D
—	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PER CHART	D
Not Shown	UP DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	14 GA	D
SPARE	SPARE WIRES SHALL DIFFER IN COLOR FROM CONTROLLER WIRES	14GA	N/A



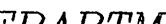
CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		TRAUTWEIN ROAD MEDIAN LANDSCAPING (FROM JOHN F. KENNEDY ROAD TO MISSION VILLAGE ROAD)	
APPROVED BY _____	BY DATE _____	APPROVED BY _____	DATE 8/14/05
PRINCIPAL ENGINEER	CONST. CONTRACT ADMIN.	CITY ENGINEER	
STREET SERVICES	SURVEYOR		
TRAFFIC DIVISION	PARKS DEPARTMENT		
DESIGNED BY _____	PC _____	DRAWN BY _____	PC _____
CHECKED BY _____	CGG		

13505
ACCT. NO.: 9582236234-440304XX
R-3800
SHEET 1-4 OF 5



- PARK FILE: PC-3800-3001-M



CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT				
APPROVED BY	BY	DATE	APPROVED BY	
PRINCIPAL ENGINEER	OK	8/10/05	 CITY ENGINEER	
CONST. CONTRACT ADMIN.	8	8/10/05		
STREET SERVICES	BJS	8/10/05		
SURVIVOR				
TRAFFIC DIVISION	PC	8/10/05		
PARKS DEPARTMENT			DATE	8/10/05

13505
ACCT. NO.: 9582236234-440304XX

R-3800

SHEET 1-5 OF 5

INDEXED 8-30-05 LTH